1. A system comprising:

at least one first conductive element in contact with at least one dielectric mismatch boundary;

at least one second conductive element in contact with the at least one dielectric mismatch boundary; and

a receiver for receiving an electromagnetic signal from the at least one second conductive element, the received electromagnetic signal being based on an electromagnetic signal transmitted on the at least one first conductive element and being coupled to the at least one second conductive element in response to the at least one dielectric mismatch boundary.

2. The system of claim 1 further comprising a third conductive element surrounding at least part of the at least one first and second conductive elements and being connected to a ground plane.

3. The system of claim 1 wherein the at least one first and second conductive elements are positioned substantially parallel to each other and substantially perpendicular to the at least one dielectric mismatch boundary.

4. The system of claim 1 wherein the at least one dielectric mismatch boundary corresponds to a region associated with at least one first substance having a first dielectric constant and at least one second substance having a second dielectric constant.

5. The system of claim 1 wherein the electromagnetic signal exhibits an ultra-wideband frequency.

6. The system of claim 1 wherein the at least one dielectric mismatch boundary corresponds to a transitional region between a gaseous substance and a liquid substance.

7. The system of claim 1 wherein the at least one dielectric mismatch boundary corresponds to a transitional region between at least two of a vacuum, a gaseous substance, a liquid substance, a semi-solid substance, and a solid substance.

8. The system of claim 1 further comprising a transmitter for forming the electromagnetic signal.

9. The system of claim 1 further comprising a processing element executing instructions to evaluate the received electromagnetic signal relative to the transmitted electromagnetic signal to determine a characteristic of at least one substance associated with the dielectric mismatch boundary.

10. The system of claim 9 wherein the processing element communicates at least one of the attributes of the received electromagnetic signal and the characteristic of the at least one substance to a digital data processing device during a communication session.

11. The system of claim 9 wherein the attributes of the received electromagnetic signal relative to the transmitted electromagnetic signal includes a time delay and the characteristic of the at least one substance corresponds to a level of that substance.

12. The system of claim 11 wherein the time delay attribute of the received electromagnetic signal relative to the transmitted electromagnetic signal is based, at least in part, on a time differential between signals associated with an equivalent time sampling circuit of the receiver.

13. The system of claim 11 wherein the level corresponds to a volume of fluid in at least one of an above-ground storage tank and a below-ground storage tank.

14. The system of claim 1 wherein the at least one first and second conductive elements form a parallel conductor transmission line structure.

15. The system of claim 1 wherein the at least one first and second conductive elements are flexible.

16. The system of claim 1 wherein the at least one first and second conductive elements exhibit quadrilateral cross-sections.

17. The system of claim 1 wherein the at least one first and second conductive elements exhibit substantially identical cross-sections.

18. The system of claim 1 further comprising:

a coupler positioned at the dielectric mismatch boundary for coupling the received electromagnetic signal, the size of the received electromagnetic signal being independent of dielectric properties associated with substances forming the dielectric mismatch boundary.

19. The system of claim 18 wherein the coupler operates as an electromagnetic shunt path between the at least one first and second conductive elements.

20. The system of claim 18 wherein the coupler exhibits a length corresponding to at least one-quarter of a propagation velocity pulse length of the transmitted electromagnetic signal.

21. The system of claim 18 further comprising:

a float for positioning the coupler relative to the at least one dielectric mismatch boundary.

22. The system of claim 21 wherein the float includes a buoyant component and a weighted component.

23. A method comprising:

transmitting an electromagnetic signal on an at least one first conductive element, the first conductive element being in contact with an at least one dielectric mismatch boundary; and

receiving an electromagnetic signal based on the transmitted electromagnetic signal at an at least one second conductive element, the received electromagnetic signal being coupled to the at least one second conductive element in response to the at least one dielectric mismatch boundary, wherein the at least one second conductive element is in contact with the at least one dielectric mismatch boundary.

24. The method of claim 23 further comprising:

surrounding at least part of the at least one first and second conductive elements with a third conductive element connected to a ground plane.

25. The method of claim 23 further comprising:

evaluating attributes of the received electromagnetic signal relative to the transmitted electromagnetic signal to determine a characteristic of at least one substance associated with the dielectric mismatch boundary

26. The method of claim 25 wherein the attributes of the received electromagnetic signal relative to the transmitted electromagnetic signal includes a time delay and the characteristic of the at least one substance corresponds to a level of that substance.

27. The method of claim 23 wherein the at least one first and second conductive elements are flexible.

28. The method of claim 23 further comprising:

providing a coupler positioned at the dielectric mismatch boundary for coupling the received electromagnetic signal to the at least one second conductive element, the size of the received electromagnetic signal being independent of dielectric properties associated with substances forming the at least one dielectric mismatch boundary.

29. The method of claim 28 further comprising:

providing a float for positioning the coupler relative to the at least one dielectric mismatch boundary.